Read the safety instructions and operating instructions before starting up the device. Retain this document for future use.

**Important**

- Electrical devices may only be installed and mounted by a qualified electrician.
- Use the device only for installation in the sub-distribution unit (overvoltage category 3) or less in compliance with VDE 0110-1.

Observe the following rules when installing the device:

- Operate at a dry location only.
- Slits and openings in the housing are for ventilation purposes and may not be covered.
- Do not insert any objects into the openings.
- Avoid direct sunlight.
- Ensure sufficient ventilation.
- Clean with a damp cloth only.

The device may only be operated in a supply network in accordance with the type plate. Contact customer service in case of damage. Damage has occurred:

- If liquid has been poured onto the device,
- If objects have entered the device,
- If the device doesn't work although all of the operating instructions have been followed properly,
- If the housing of the device has been damaged.

### Safety instructions

**Connections**

Series installation device for the central provision (feeding) of network functionality via the in-house 230 V mains. This HomePlug AV device provides a data transfer rate of up to 200 Mbit/s. Thus it is ideally suited for the highest requirements, such as HD TV streaming, Internet telephony and high-speed Internet. Computer, IP telephones, IP cameras, TV, other multimedia and network-compatible technical devices with network connections can be linked via corresponding HomePlug AV socket outlet adapters or HomePlug AV network connection boxes.

A home network can be established by combining DRA HomePlug AV feeders to network connection boxes.

The DRA HomePlug AV feeder provides a phase coupler function to distribute the data flow via up to 3 phases, an RJ45 socket as a network connection, an encryption button and three LED control lights.

A network cable is included in the scope of delivery. Data transfer is encrypted to protect the privacy of the network.

### Device description

**Cable terminations (1)**

- **N** 1.2 and L3
- **L1, L2 and L3**

**LED (2)**

The LED below the symbols on the front can indicate the following states:

**Power**

<table>
<thead>
<tr>
<th>Status</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constantly illuminated green</td>
<td>The device is ready for operation</td>
</tr>
<tr>
<td>Flashes green</td>
<td>The device is in standby mode</td>
</tr>
<tr>
<td>Constantly illuminated orange</td>
<td>The connection is suitable for HD video streaming and online gaming</td>
</tr>
<tr>
<td>Flashes orange</td>
<td>Data is being transferred</td>
</tr>
<tr>
<td>Constantly illuminated red</td>
<td>The connection is suitable for simple data transfer and Internet access</td>
</tr>
<tr>
<td>Flashes red</td>
<td>Data is being transferred</td>
</tr>
</tbody>
</table>

**Ethernet**

<table>
<thead>
<tr>
<th>Status</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constantly illuminated green</td>
<td>There is a connection to the ethernet network</td>
</tr>
<tr>
<td>Flashes green</td>
<td>Data is being transferred</td>
</tr>
</tbody>
</table>

**Network socket outlet (ethernet RJ45) (3)**

An RJ45 plug can be snapped into the device. In this way, the DRA HomePlug AV feeder can be connected e.g. to a DSL modem/DSL router and ultimately the Internet via a network cable.

**Reset button (4)**

When this button is pressed, the device is reset to the delivered state.

**Encryption button (5)**

The encryption button (padlock symbol) is to the right of the Reset button. When the encryption button is pressed, a random password which protects the network is generated.

**Security ID-number (6)**

The security ID-number and MAC address of the device are on the device sticker. The device is addressed in the network using these unique identifiers. This data is required to configure the network.

**Device sticker**

The security ID is covered by the contact protection in the sub-distribution unit.

**Security in the network**

The device is encrypted in the state of delivery, and data transfer is secured from the initial transmission. The powerful 128-bit AES encryption provides maximum data security. The standard password in the state of delivery is HomeplugAV.

To protect the network ideally, the standard password must be changed using the configuration software or by pressing the encryption button.

**Configuration software**

The configuration software is available for download in the Gira download area.

Using this software:

- a network can be managed
- the转让 quality can be shown
- the rate of the transfer can be shown
- the transferring device can be shown
- a setting can be changed
- device information can be called up
- tips for optimising the network can be shown
- a network can be encrypted with a personal password

**Encryption button**

After the DRA HomePlug AV feeder and another HomePlug AV device have been connected, within two minutes, press both encryption buttons for one second. By pressing the encryption button, (Fig. 4, (1)) the data traffic of the HomePlug AV network is secured using a randomly-generated code.

**Technical data**

- **Standards**
  - Ethernet specification IEEE 802.3, IEEE 802.3x, IEEE 802.3u, Auto MDI / X
  - HomePlug AV
  - Protocols: CSMA/CA via 230 V mains
  - Transfer rate: 200 Mbit/s
  - Transfer process: asynchronous
  - Modulation: OFDM - 1155 carrier, 256QAM, QPSK, 8PSK
  - Data path: Ethernet via 230 V mains
  - Range: max. 300 m
  - Safety: 128-bit AES encryption via 230 V mains (activated by pressing a button)
  - **LED**
    - Power: HomePlugAV
    - Ethernet: HomePlug AV connection
  - Power supply: AC 230 V 50/60Hz
  - Temperature: Storage -25°C to 70°C
  - Operation: 0°C to 40°C
  - Weight: 178 g
  - Dimensions: (H x W x D) 90 x 73 x 66 mm
  - Ambient conditions: 10 – 90 % humidity (non-condensing)
  - Operating systems: including Windows® XP 32/64-bit, Windows® Vista 32/64-bit, Linux®, Mac OS® X and all TCP/IP operating systems

**Warranty**

The warranty is provided in accordance with statutory requirements via the specialist trade. Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/specialist electrical trade). They will forward the devices to the Gira Service Center.